The final Office Action mailed July 27, 2005, has been reviewed and carefully

considered. Claims 1, 12, 13, 16, 28, 29 and 44 have been amended. Claims 1-10, 12-23 and

35-44 are pending.

In paragraph 2 on page 2 of the Office Action, claims 12-13 were objected to as being

dependent upon a canceled claim.

Applicants have amended claims 12 and 13 to correct their dependency. Applicants

respectfully submit that the amendment to claims 12 and 13 do not narrowed the scope of claims

12 and 13.

In paragraph 4 on page 2 of the Office Action, claims 1, 16, 28, 29 and 44 were rejected

under § 112, second paragraph because the phrase "for each sequence selection stage" lacked

antecedent basis.

In paragraph 5 on page 3 of the Office Action, claims 1, 16, 28, 29 and 44 were indicated

as being allowable if rewritten or amended to overcome the rejections under § 112, second

paragraph. In paragraph 6 on page 3 of the Office Action, claims 2-10, 12-15, 17-23, 25-27 and

30-43 were indicated as being allowable if rewritten or amended to overcome the rejections

under § 112, second paragraph.

Applicants respectfully traverse the rejection, but in the interest of expediting prosecution

have amended the claims as suggested.

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On the basis of the above amendments and remarks, it is respectfully submitted that the claims are in immediate condition for allowance. Accordingly, reconsideration of this application and its allowance are requested.

If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Attorney for Applicant, David W. Lynch, at 423-757-0264.

Respectfully submitted,

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By:

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